

| | EPA | MDNR | Republic (at stations) | Republic (at excavation) |
|----------------------------------|------------------------------------|---------------------------------|---|-------------------------------------|
| General Location | community | fenceline | onsite | at open trench |
| # of Stations | 5 | 3 | 13 (proposed)* | mobile handhelds |
| Purpose | ambient air | CERCLA release | OSHA worker | OSHA worker/release control |
| Levels to expect | non-detect to barely detectable | non-detect to low detections | non-detect to moderate detections | moderate to elevated |
| Radiation | | | | |
| <i>Laboratory samples</i> | | | | |
| TLD | gamma/monthly | | gamma/quarterly | gamma/quarterly |
| Particulates | alpha-beta/weekly | | alpha-beta/monthly | |
| Alpha-track detector | | | radon/quarterly | |
| Eperms | radon/weekly | | | |
| PICs | gamma/weekly | | | |
| ECAM | $\alpha/\beta/\gamma$ as needed | | | |
| | | | | |
| <i>Portable field monitoring</i> | uR/hr | uR/hr | | uR/hr |
| Genitron | gamma | | | |
| GammaRae | gamma | gamma | | |
| ECAM | gamma | | | |
| Ludlum model 192 | | | | gamma |
| Ludlum model 3 | | | | alpha-beta |
| Identifinder | | gamma | | |
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| | EPA | MDNR | Republic (at stations) | Republic (at excavation) |
| Volatile Organic Compounds | | | | |
| <i>Laboratory samples</i> | Analytes/method | Analytes/method | Analytes/method | |
| Summas - VOCs | EPA TO-15 | VOCs | | |
| Radiellos - VOC + H2S | Radiello Code 130 | | Radiello Code 130 | |
| | | | | |
| <i>Portable field monitoring</i> | Sensors/detection limits/measurement frequency | Sensors/detection limits/measurement frequency | Sensors/detection limits/measurement frequency | |
| AreaRae | CO - 1ppm | CO - 1ppm | N/A | |
| | VOCs - 1ppm | VOCs - 1ppm | | |
| | H2S - 1ppm | H2S - 1ppm | | |
| | SO2 - 1 ppm | SO2 - 1 ppm | | |
| | | O2 | | |
| | | LEL - % | | |
| MultiRae | | VOCs - ppm | | VOCs - ppm |
| | | LEL - % | | LEL - % |
| | | H2S - ppm | | H2S - ppm |
| | | CO -ppm | | CO -ppm |
| | | O2 - % | | O2 - % |
| | | SO2 - 1 ppm | | |
| ppbRae | | VOCs | | |
| ultraRae 3000 | | benzene | | |
| Jerome H2S | | H2S/0.1 ppm/as needed | | |
| Nasal Ranger field Olfactometer | | odor/variable/as needed | | |
| | | | | |
| Atmospheric conditions | NOAA/AWAS St. Louis International | Weatherpak at trailer | Model 05305 Wind Monitor-AQ | |
| Measurements tracked | wind speed | wind speed | wind speed | |
| | wind direction | wind direction | wind direction | |
| | precipitation | precipitation | | |

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| Telemetry | Viper | Rae systems | | |
| | Rae System | | | |

* Proposed air monitoring is anticipated to begin sampling approximately end of April 2015